AMENDMENT AND RESPONSE

Serial No.: 09/826,246 Filing Date: June 29, 2004

Title: FILTER STRUCTURE INCLUDING CIRCUIT BOARD

PAGE 2

Attorney Docket No. 100.169US01

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

- 1-5. (Canceled)
- 6. (Previously presented) The filter assembly of claim 13, wherein the at least one circuit clement further comprises an amplifier.
- 7. (Original) The filter assembly of claim 6, wherein the amplifier is one of a low noise amplifier and a power amplifier.
- 8-12. (Canceled)
- 13. (Previously presented) A filter assembly, comprising:
 - an enclosure having a cavity;
 - at least one wall of the enclosure comprised of a circuit board;
 - a trace formed on the circuit board; and
 - at least one circuit element, coupled to the trace; and
 - wherein the filter assembly further comprises:
 - a first filter stage and a second filter stage formed in the enclosure, wherein the first and second filter stage each have a cavity;
 - an input connector attached to the circuit board and coupled to the first filter stage;
 - an output coupling structure mounted in the cavity of the first filter stage and coupled to an input of a low noise amplifier;
 - an input coupling structure mounted in the cavity of the second filter stage and coupled to an output of the low noise amplifier; and
 - an output connector attached to the circuit board coupled to the cavity of the second filter stage.

PAGE 5/8 * RCVD AT 12/29/2004 3:38:26 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/0 * DNIS:8729306 * CSID:612 332 4731 * DURATION (mm-ss):02-22

AMENDMENT AND RESPONSE

Serial No.: 09/826,246

Filing Date: June 29, 2004

Attorney Docket No. 100.169US01

PAGE 3

Title: FILTER STRUCTURE INCLUDING CIRCUIT BOARD

- 14. (Previously presented) The filter assembly of claim 13, wherein the circuit board comprises an inter-stage coupling circuit, the inter-stage coupling circuit comprising: the input coupling structure; and the output coupling structure.
- 15. (Original) The filter assembly of claim 14, wherein the inter-stage coupling circuit further comprises a signal trace formed on the circuit board.
- 16. (Original) The filter assembly of claim 15, wherein the signal-trace is formed in one of an internal circuit layer of the circuit board and a surface circuit layer of the circuit board.

17-39. (Canceled)

40-41. (Canceled)

42-44. (Canceled)

- 45. (Canceled)
- 46. (Canceled)
- 47. (Previously presented) A method of making a filter assembly, comprising: forming a cavity body with a cavity and with at least one opening in the cavity body; forming a trace on a printed circuit board; coupling an electronic component to the trace; and covering the at least one opening in the cavity body with the printed circuit board; and wherein forming the circuit board further comprises:

forming a first filter stage and a second filter stage formed in the enclosure, wherein the first and second filter stage each have cavity;

AMENDMENT AND RESPONSE

Scrial No.: 09/826,246

Filing Date: June 29, 2004
Title: FILTER STRUCTURE INCLUDING CIRCUIT BOARD

PAGE 4

Attorney Docket No. 100.169US01

forming an input connector attached to the circuit board and coupled to the first filter stage;

forming an output coupling structure mounted in the cavity of the first filter stage and coupled to an input of a low noise amplifier;

forming an input coupling structure mounted in the cavity of the second filter stage and coupled to an output of the low noise amplifier; and

forming an output connector attached to the circuit board coupled to the cavity of the second filter stage.

48-50. (Canceled)

51-73. (Canceled)

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.